

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652151

Luminaire Tested: **GALN-SA1B-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.1 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

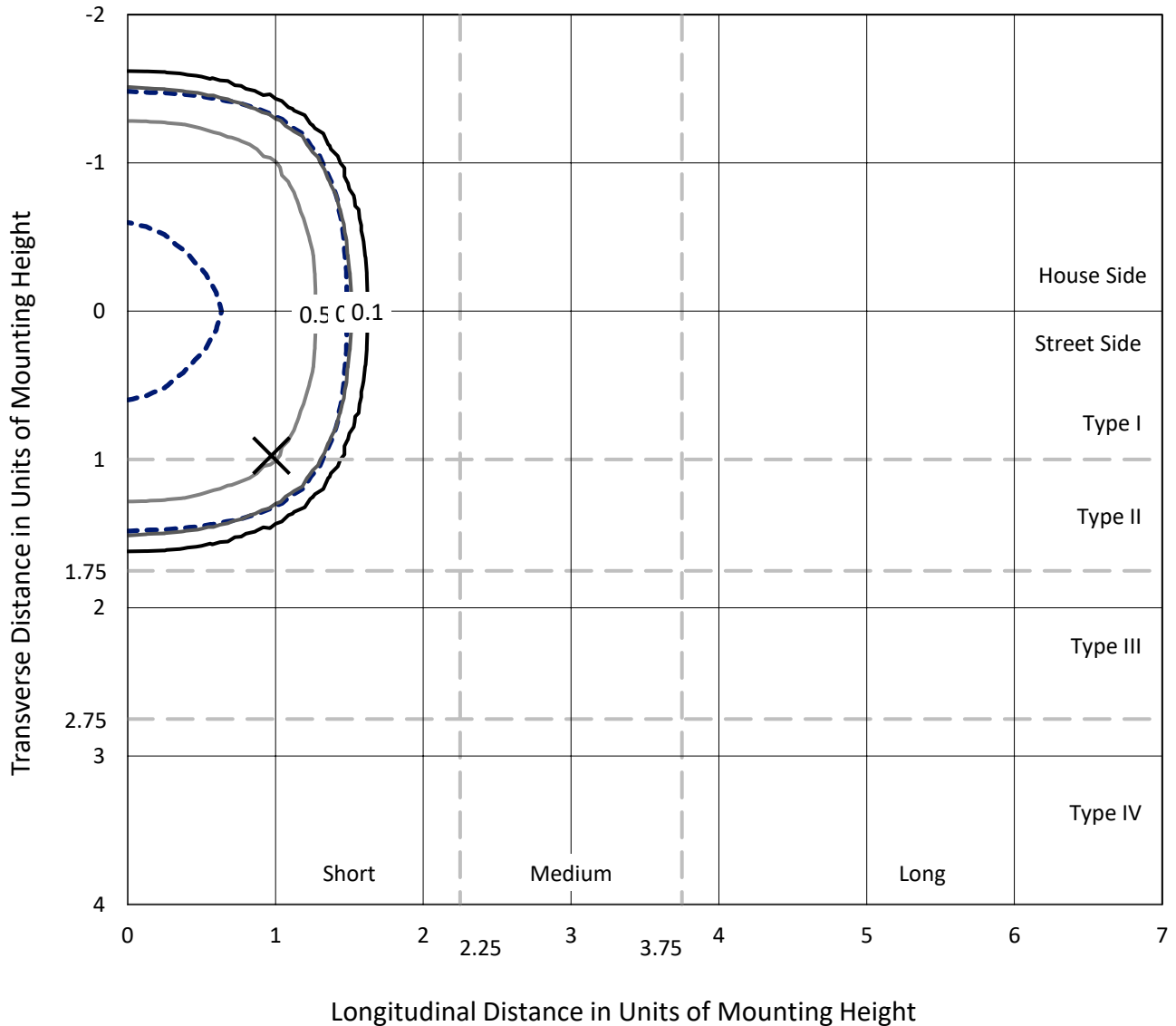
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

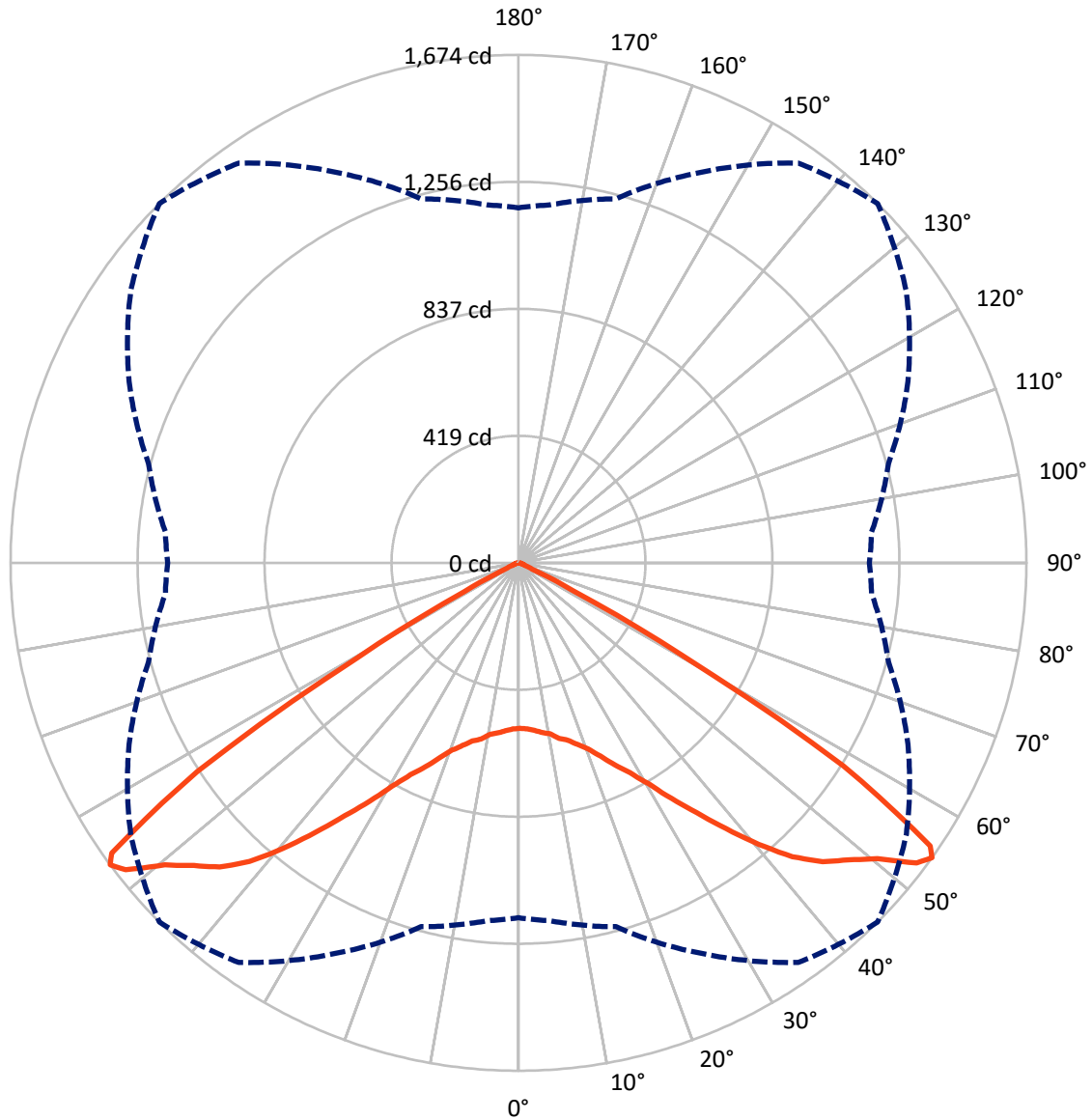
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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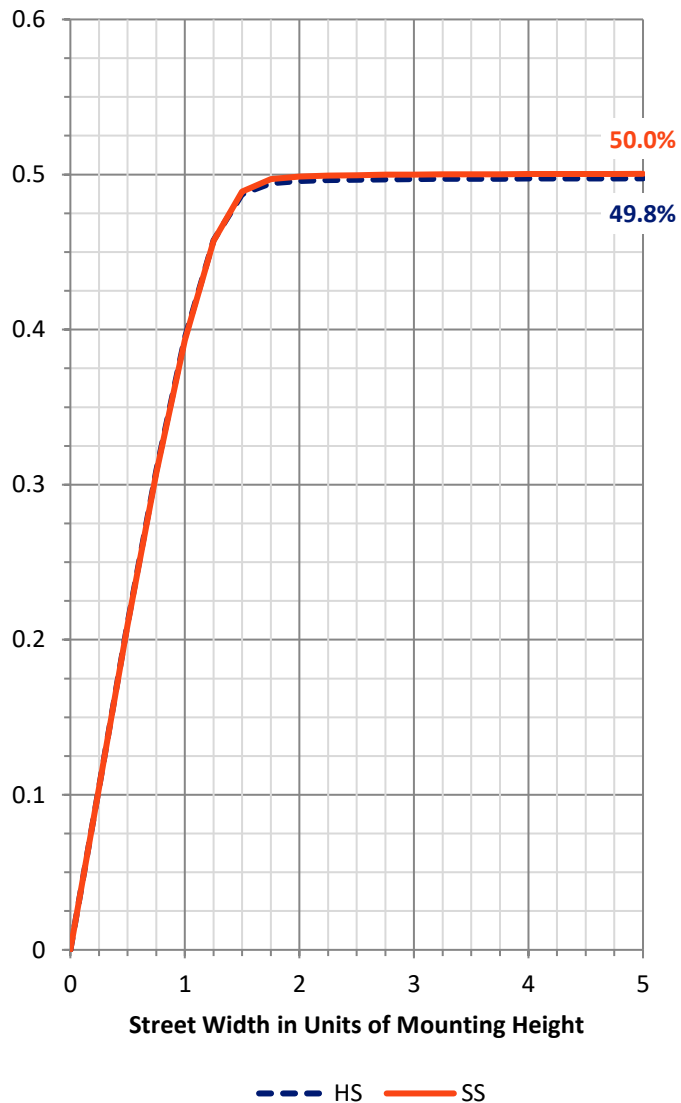
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.1	0.0	1663.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1663.1	0.0	1663.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	3326.1	0.0	3326.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.6
10°-20°	172.9	5.2
20°-30°	338.8	10.2
30°-40°	609.2	18.3
40°-50°	1042.9	31.4
50°-60°	1009.1	30.3
60°-70°	86.4	2.6
70°-80°	10.2	0.3
80°-90°	3.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3326.1	100.0
0°-180°	3326.1	100.0

Coefficient of Utilization



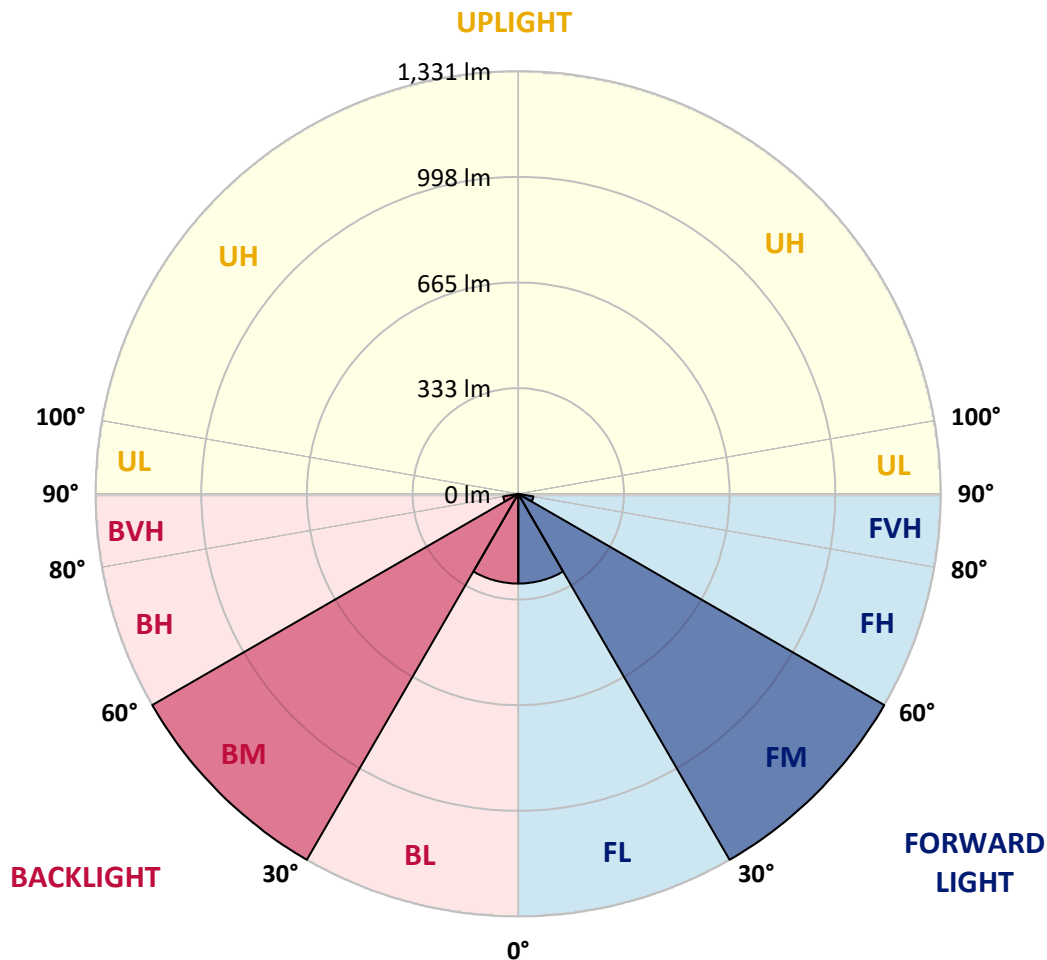
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.5	8.5			
FM (30°-60°)	1330.6	40.0			
FH (60°-80°)	48.3	1.5			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	282.5	8.5	B1/500		
BM (30°-60°)	1330.6	40.0	B2/2500		
BH (60°-80°)	48.3	1.5	B0/110		G0/660
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4	545.4
2.5°	548.0	551.2	549.1	550.7	550.7	548.0	549.6	543.3	547.5	544.3	544.9
5°	556.5	555.9	555.9	556.5	554.3	555.4	553.3	551.2	549.6	547.5	553.8
7.5°	567.0	567.0	563.3	564.4	563.3	564.9	560.7	556.5	554.9	553.3	552.2
10°	577.0	575.9	574.4	579.1	575.4	573.3	571.2	568.6	562.8	560.7	558.6
12.5°	591.7	591.2	589.1	593.8	591.7	593.8	585.9	579.1	578.0	571.2	574.9
15°	609.1	613.9	610.2	610.2	609.1	606.5	603.3	600.2	590.7	588.0	588.6
17.5°	631.8	630.2	630.8	630.8	636.0	629.2	622.8	614.9	610.2	608.6	603.3
20°	653.4	655.5	655.0	658.7	661.9	654.5	647.7	646.6	633.4	635.5	628.1
22.5°	691.4	689.8	692.4	695.0	692.9	691.9	685.6	677.7	666.1	660.8	659.8
25°	731.4	728.7	724.0	730.3	733.5	738.2	726.1	721.9	704.0	696.1	696.6
27.5°	765.6	769.3	774.6	777.3	785.2	783.6	775.1	761.4	747.7	738.7	733.0
30°	812.6	814.7	823.6	827.3	841.0	844.7	831.5	815.7	791.5	779.9	773.0
32.5°	855.7	870.5	870.0	888.4	910.6	925.9	902.1	877.9	853.6	839.9	827.8
35°	925.9	923.2	938.5	958.0	993.8	1011.2	985.4	957.5	920.6	898.4	888.9
37.5°	991.2	992.2	1012.8	1043.8	1085.0	1111.9	1089.2	1043.3	1005.4	977.0	963.8
40°	1086.1	1088.2	1109.2	1144.5	1190.9	1219.9	1193.5	1147.1	1096.6	1074.5	1074.5
42.5°	1197.2	1206.2	1219.9	1250.4	1292.0	1324.2	1300.5	1264.1	1213.1	1184.5	1188.8
45°	1311.5	1315.7	1324.7	1370.1	1389.6	1405.4	1383.2	1366.4	1332.1	1297.3	1291.5
47.5°	1418.5	1420.1	1446.4	1460.6	1476.0	1462.8	1477.0	1454.9	1416.4	1382.7	1375.9
50°	1465.9	1463.3	1500.8	1543.9	1555.5	1532.4	1520.2	1505.5	1447.0	1406.4	1388.5
52.5°	1327.9	1343.2	1412.7	1532.9	1623.6	1643.0	1572.4	1504.4	1395.3	1316.3	1304.2
54°	1169.8	1184.0	1241.5	1419.6	1608.2	1674.1	1560.3	1415.9	1262.0	1168.2	1156.1
55°	1013.3	997.5	1101.9	1283.6	1536.6	1646.7	1512.3	1301.5	1125.5	1039.6	1022.8
57.5°	548.6	551.2	639.2	811.0	1079.7	1262.6	1115.0	880.5	665.0	568.6	560.1
60°	173.9	178.1	216.6	327.7	515.9	616.0	528.0	353.6	244.5	196.0	188.1
62.5°	54.2	56.3	61.6	91.7	141.2	201.8	158.1	94.9	70.6	64.8	65.9
65°	33.2	33.2	33.7	35.8	42.1	49.0	47.4	41.6	40.0	39.0	38.4
67.5°	21.6	21.1	22.1	23.7	24.7	25.3	26.9	28.4	27.9	26.9	26.9
70°	13.2	12.6	13.7	15.8	16.3	17.4	19.0	21.1	20.5	19.5	20.0
72.5°	7.4	7.4	7.9	9.5	11.1	12.1	13.7	15.3	15.8	15.3	15.3
75°	2.6	3.2	4.2	5.8	6.8	8.4	10.0	11.6	13.2	12.1	11.6
77.5°	1.1	1.1	2.1	3.7	5.3	6.8	9.5	11.1	12.1	11.1	10.0
80°	0.5	0.5	1.6	3.2	4.7	6.3	7.9	9.5	10.0	9.0	7.9
82.5°	0.5	0.5	1.6	3.2	4.7	5.8	8.4	9.5	10.5	9.5	7.9
85°	0.0	0.5	1.6	3.2	4.2	4.7	4.7	3.2	2.6	1.6	1.6
87.5°	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)